

IN THE CLAIMS

Please amend the claims as follows:

1. (Cancelled).

2. (Previously Submitted) A device for calibrating a microphone, said device comprising:

a loudspeaker for converting a loudspeaker input signal into sound;

5 a microphone for converting received sound into a microphone output signal; and

calibration means for calibrating an output power of the microphone relative to a desired power level, said calibration means comprising impulse response estimating means for estimating
10 an acoustic impulse response of the microphone by correlating the microphone output signal and the loudspeaker input signal when the microphone receives the sound from the loudspeaker, whereby the output power of the microphone is estimated, wherein said device further comprises:

15 direct part extraction means for extracting a direct part of the acoustic impulse response, thereby passing through a diffuse part of the acoustic impulse response.

3. (Previously Submitted) The device as claimed in claim 2,
wherein said device further comprises:

high- and low-pass filter means for filtering out low and
high frequencies from the diffuse part of the acoustic impulse
5 response.

4. (Currently Amended) ~~A device for calibrating a microphone,
said device comprising:~~

~~----- a loudspeaker for converting a loudspeaker input signal
into sound;~~

5 ~~----- a microphone for converting received sound into a
microphone output signal; and~~

~~----- calibration means for calibrating an output power of the
microphone relative to a desired power level, said calibration
means comprising impulse response estimating means for estimating~~

10 ~~an acoustic impulse response of the microphone by correlating the
microphone output signal and the loudspeaker input signal when the
microphone receives the sound from the loudspeaker, whereby the
output power of the microphone is estimated~~The device as claimed in
claim 2,

15 wherein said device further comprises:

squaring and summation means for creating a representation
of a current power level of ~~a~~ the diffuse microphone part of the
acoustic impulse response of the microphone.

N:\UserPublic\GO\PZ18GOD0.GOR 3

5. (Currently Amended) The device as claimed in claim 4,
wherein said device further comprises:

relating means, coupled to an output of said squaring and
summation means, for relating the current power level of the
5 diffuse microphone part of the acoustic impulse response of the
microphone with a desired power level.

6. (Previously Submitted) The device as claimed in claim 5,
wherein an output of the relating means is fed back to the
microphone output signal as a calibration factor.

7. (Previously Submitted) The device as claimed in claim 5,
whereby the desired power level has a predetermined value for
absolute calibration of the microphone.

8. (Currently Amended) The device as claimed in claim 5,
wherein said device further comprises a reference microphone for
calibration of said ~~microphones~~ microphone (A) relative to the
reference microphone, the output of the reference microphone
5 forming the desired power level input for the relating means.

9. (Previously Submitted) The device as claimed in claim 3, whereby the high- and low-pass filter means are combined into a band-pass filter.

10. (Previously Submitted) The device as claimed in claim 6, wherein said device further comprises:

means for averaging the calibration factor.

11. (Previously Submitted) The device as claimed in claim 5, wherein said device further comprises:

respective averaging means for averaging said desired power level and said current power level prior to application to
5 said relating means.

12. (Cancelled).